

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US05/07981

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : F25B 9/00

US CL : 62/6

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 62/6

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
None

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
None

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X — Y	US 3,677,295 A (SCHULTZ) 18 July 1972 (18.07.1972), see column 2 lines 70-75.	9-12 1,2,4
Y	US 4,925,464 A (RABENAU et al) 15 May 1990 (15.05.1990), see entire document.	5,6
X — Y	US 2,832,561 A (HOLL) 29 April 1958 (29.04.1958), see lines 6-28 of column 2.	9-12 1,3,5-8
X — Y	US 2,319,733 A (HALL) 18 May 1943 (18.05.1943), see figure 1	9-12 1,3,5-8
X — Y	US 5,315,963 A (WARF) 31 May 1994 (31.05.1994), see col. 3 line 44-col. 4 line 2.	9-12 1-8



Further documents are listed in the continuation of Box C.



See patent family annex.

* Special categories of cited documents:

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"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

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later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X"

document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y"

document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&"

document member of the same patent family

Date of the actual completion of the international search

10 June 2005 (10.06.2005)

Date of mailing of the international search report

30 JUN 2005

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INTERNATIONAL SEARCH REPORTInternational application No.
PCT/US05/07981**C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 6,694,749 B2 (HERON) 24 February 2004 (24.02.2004), see entire document.	1-8
Y	US 2002/0066,276 A (KAWANO) 06 June 2002 (06.06.2002), see entire document.	1-8
A	US 4,373,476 A (VERVOORDT et al) 15 February 1983 (15.02.1983), see entire document.	1-12